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# Figure 1A

2/29

cZyxin	319-331	<u>L</u>	T	M	K	E	V	E	E	L	E	L	L	T
MAPKK	32- 44	A	<u>L</u>	Q	K	K	L	E	E	L	E	L	D	E
PKI- $\alpha$	37- 46		<u>L</u>	A	<u>L</u>	K	L	A	G	L	D	I		
TFIIIA	330-338			<u>L</u>	P	V	L	E	N	L	T	L		
RevHIV-1	73- 81			<u>L</u>	P	P	L	E	R	L	T	L		
RanBP1	178-189		K	<u>V</u>	A	E	K	L	E	A	L	S	V	R
FMRP	425-437	E	V	D	Q	<u>L</u>	R	L	E	R	L	Q	I	D
Gle1	351-356				<u>L</u>	P	L	G	K	L	T	L		
RexHTLV-1	81- 94	A	<u>L</u>	S	A	Q	<u>L</u>	Y	S	S	L	S	L	D S
human NADE	65- 77	R	E	<u>I</u>	R	R	K	L	R	E	L	Q	L	R
mouse NADE	88-100	R	E	<u>I</u>	R	R	K	L	R	E	L	Q	L	R

Figure 1B

3/29

	Box 1	Box 2
Mouse 88-114	REIRRKLRRLQLRNCL	RILMGELSNNHH
Human 75-101	REIRRKLRRLQLRNCL	RILMGELSNNHH
Consensus	RXXLXXLX--N	RXXLXXLXN

Figure 1 C

4/29

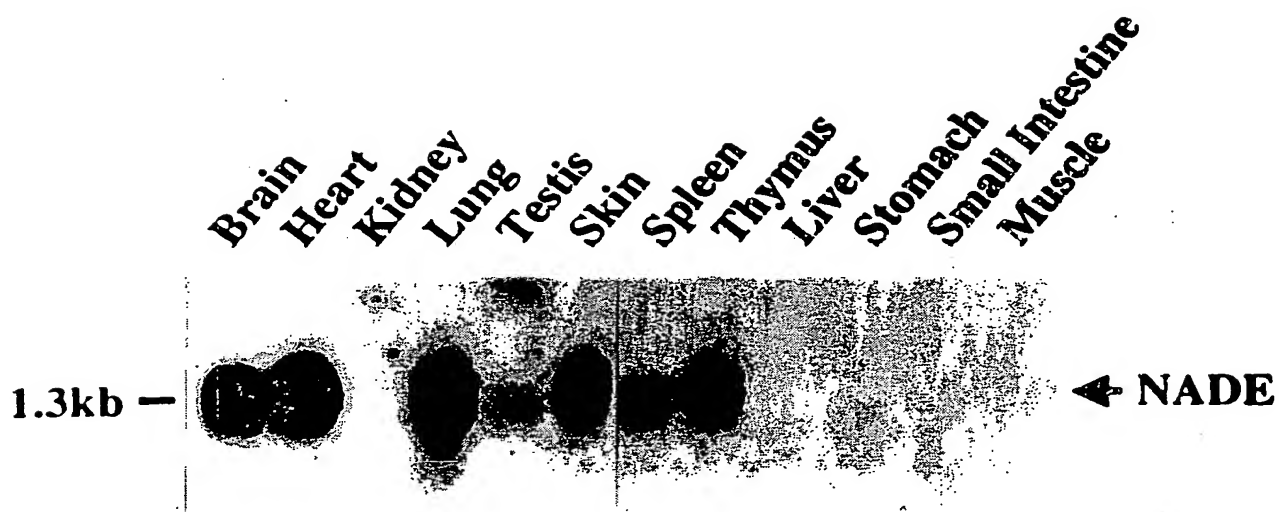
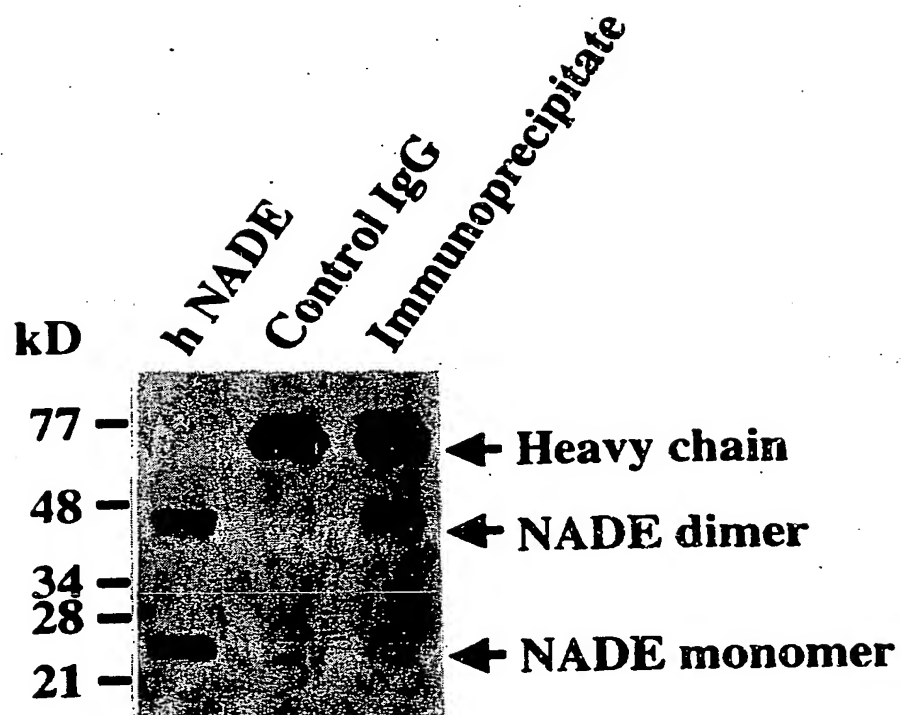


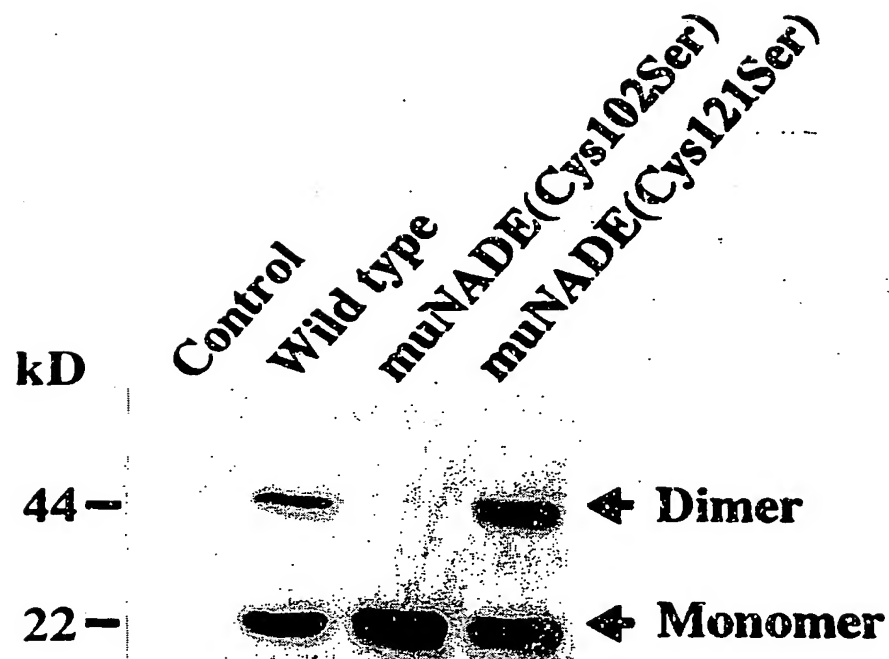
Figure 1D

5/29

**Figure 1E**

5/29/1

Figure 1F



6/29

Figure 1G-1

**Mouse**

```

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61  aggcgagcgggacagattgactggaagccgagagtcaggcggcagcgggaattgacagg 120
121  aggactacgccgcaagggataggcccagaatagcaaccaggaaacaaaatctcatcatgg 180
181  ccaatgtccaccaggaaaaacgaagagctggagcagccccctgcagaatggacaggaagacc 240
241  gccctgtgggaggagggtgagggccaccagcctgctgcaaacaacaacaacaaccaca 300
301  accataaccacaaccaccaccgaagaggccaggctcgccgacttgccccctaacttccgat 360
361  gggccattcccaacacaggcagatgaatgacgggttgggtggagatggagatgatatggaaa 420
421  tgttcattggaggagatgagagagatccggagaaagcttagggagctacagctgagaaatt 480
481  gcttacgcattccttatgggggagctgtctaacaccacgacaccatgatgaattctgcc 540
541  tctatgcttgacttcgggtcatcccccttgagatccatactgtgactcccgctgtagccc 600
601  ttttctctgcattttcctgacatgcccttaatgaccgcttctgtgtgagccttctgttat 660
661  tcccatgccatgtgccaggctggggcttctgttgcacgtga

```

**Human**

```

1  accccatccccactcctataccggctcctccattttgggtgcctgcaaagctctgggaaag 60
60  aatccccgggaaacgaaaaatcgtgggtttgggggaaagggaggtaaggggagaaagctgga 120
121  gggaggggctttaattggaggccccgttagaggacgcgcgggaacttctaagggtgggaaaaa 180
181  acgaaattaaaaaatcctttgatatacagggtcttgaatcctgctgggtcagagcaccaagc 240
241  attcagttctctctccttgcctttgtcttacttgtgttcaaagaaaaacaaccagaaaaaa 300
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361  atggagaggaagaccgcccccttgggaggagggtgaaggccaccagcctgcaggaaatcgac 420
421  ggggacaggtcgccgacttgcccccaattttcgatgggccataaccaataggcagatca 480
481  atgatgggatgggtggagatggagatgatatggaaatattcatggaggagatgagagaaa 540
541  tcagaagaaaacttagggagctgcagctgaggaattgtctgcgtatccttatgggggagc 600
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661  tcatgagattaatactgtgatccccgctgtttcttttttcttcttgcattttccctaataatgc 720
721  ctttactgatccgtttgctgtgaaccctatgttattttccatgtgtcaagtgggtcttctgt 780
781  tggcagcttctatttgaaagattgcctttgcactcagtgtaagtttctgtcagcagtagc 840
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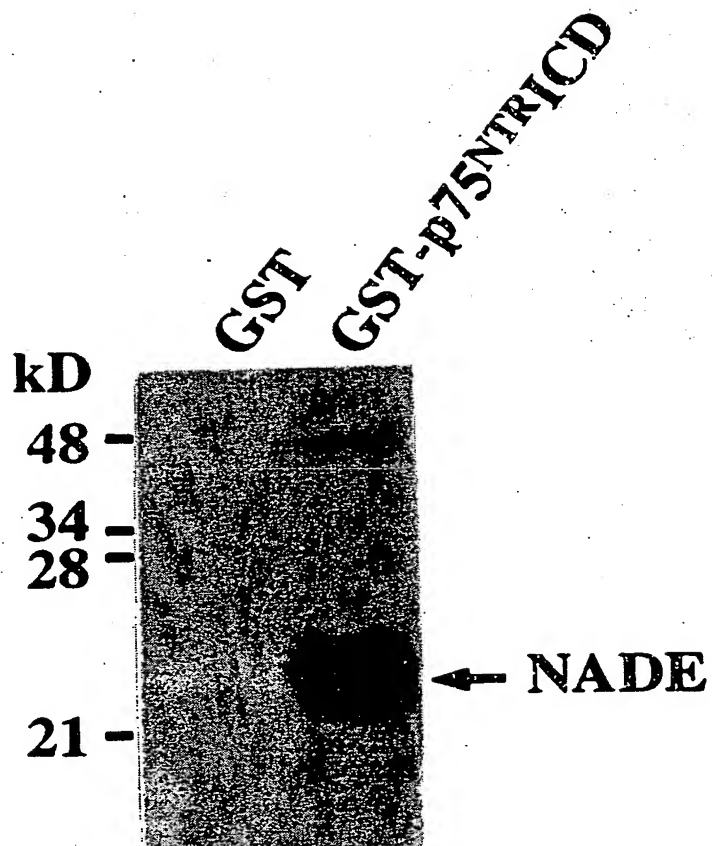
Figure 1G-2



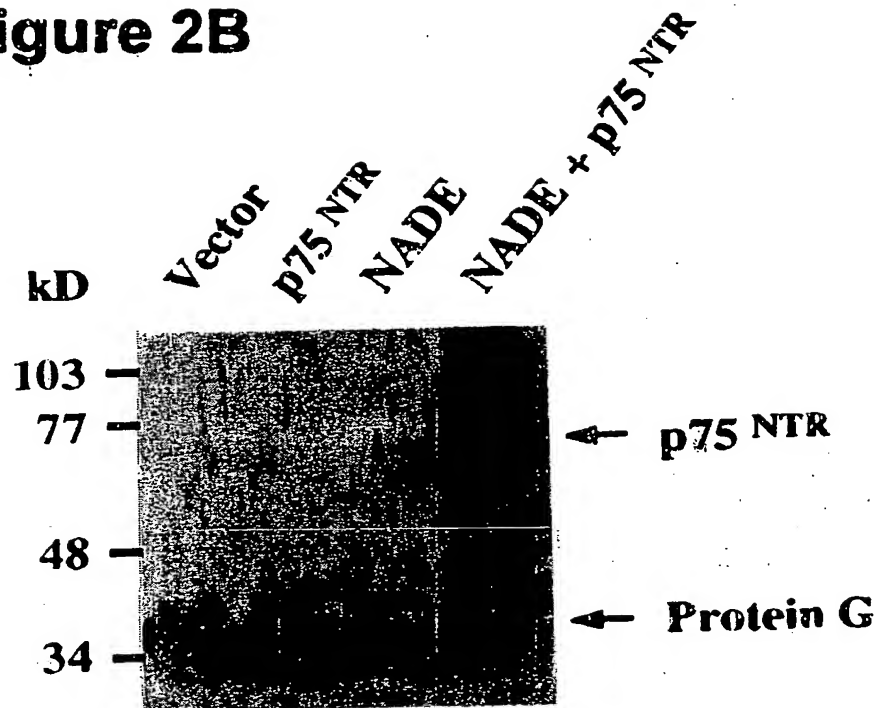
## Figure 1H

8/29

**Figure 2A**



8/29/1

**Figure 2B**

9/29

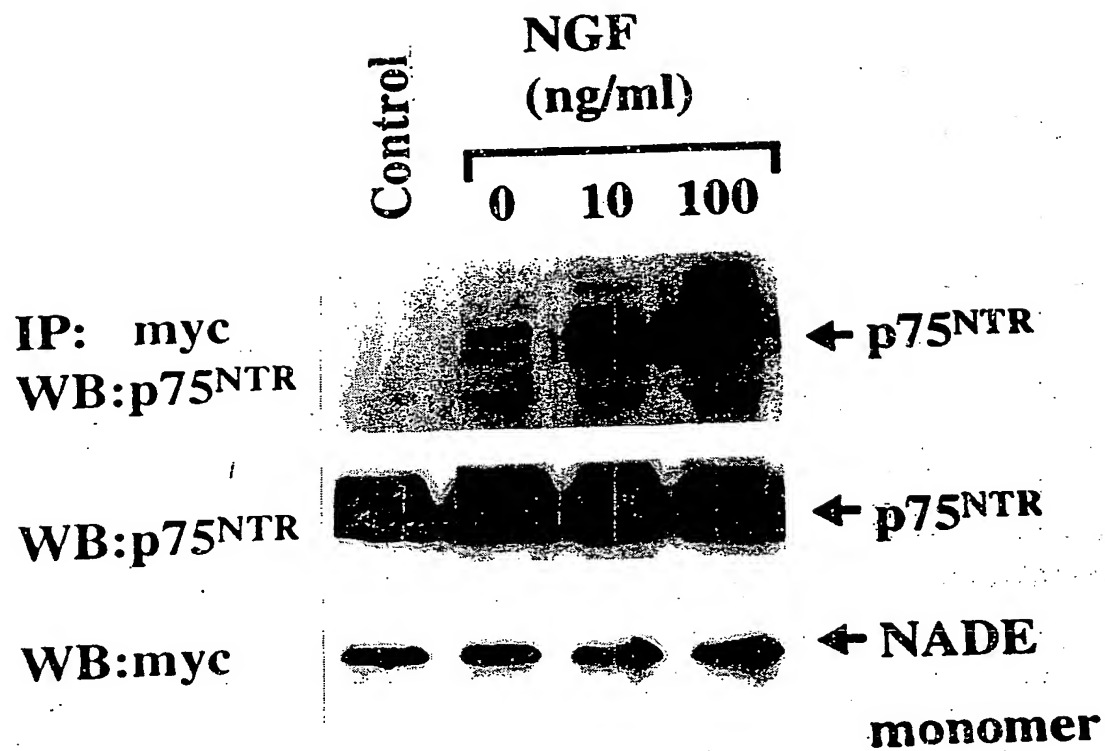
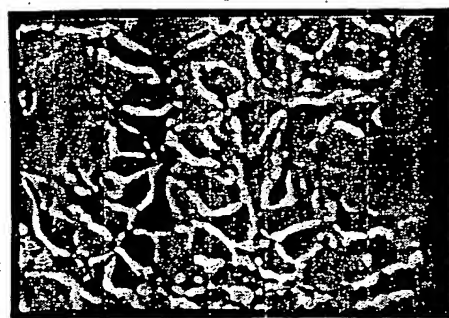


Figure 2C

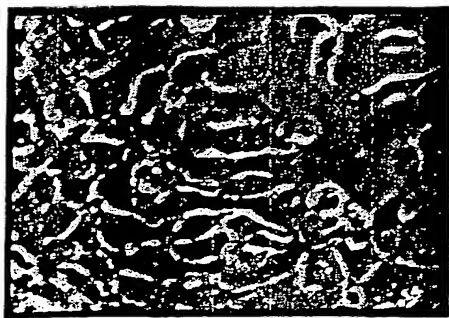
10/29



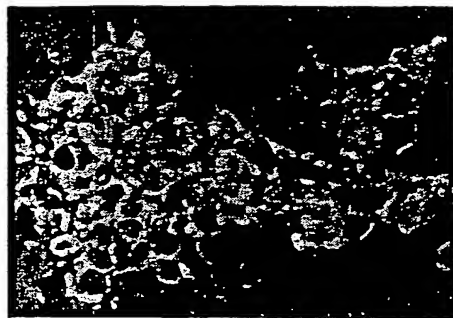
**Control**



**NADE**



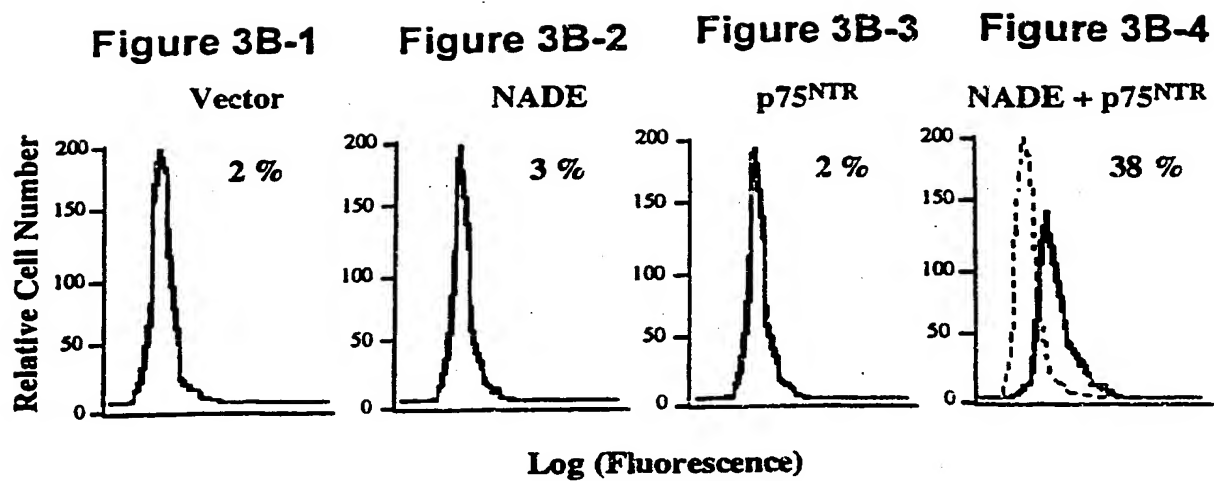
**p75<sup>NTR</sup>**



**NADE + p75<sup>NTR</sup>**

**Figure 3A**

11/29



12/29

Marker  
Vector  
p75NTR  
NADE  
NADE + p75 NTR

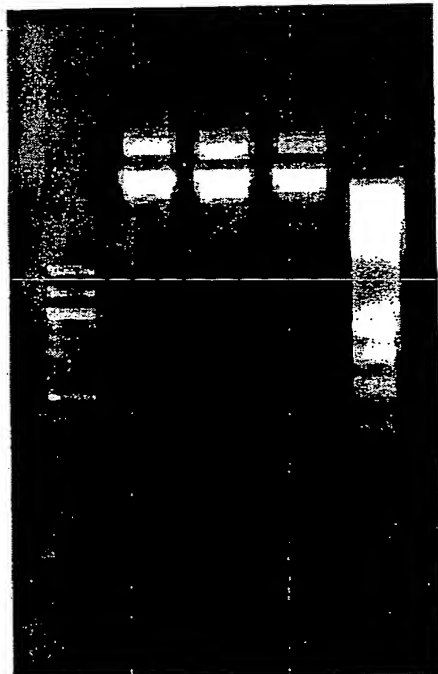


Figure 3C

13/29

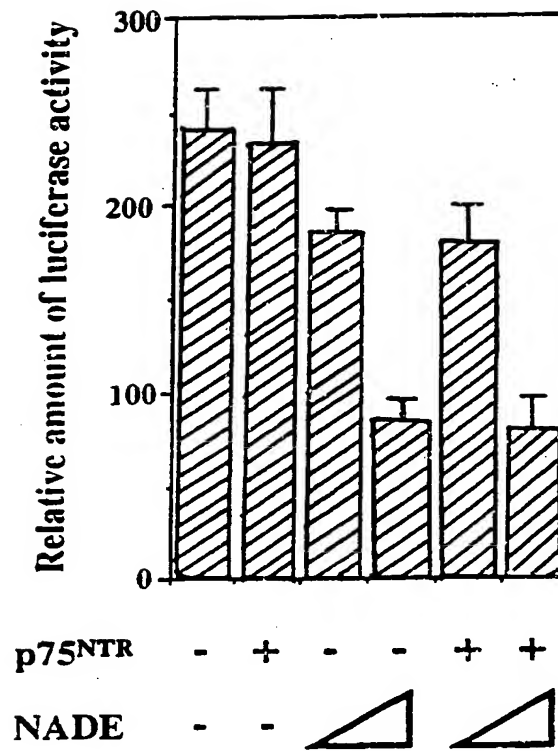


Figure 3D



14/29

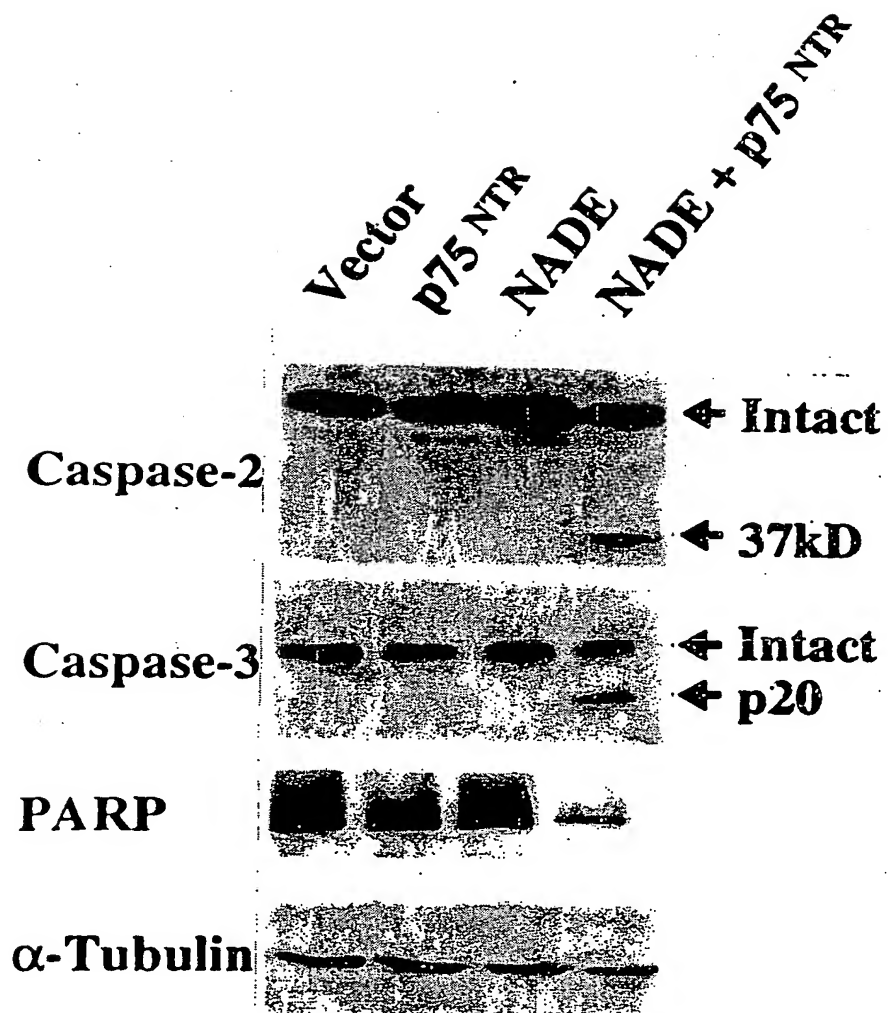
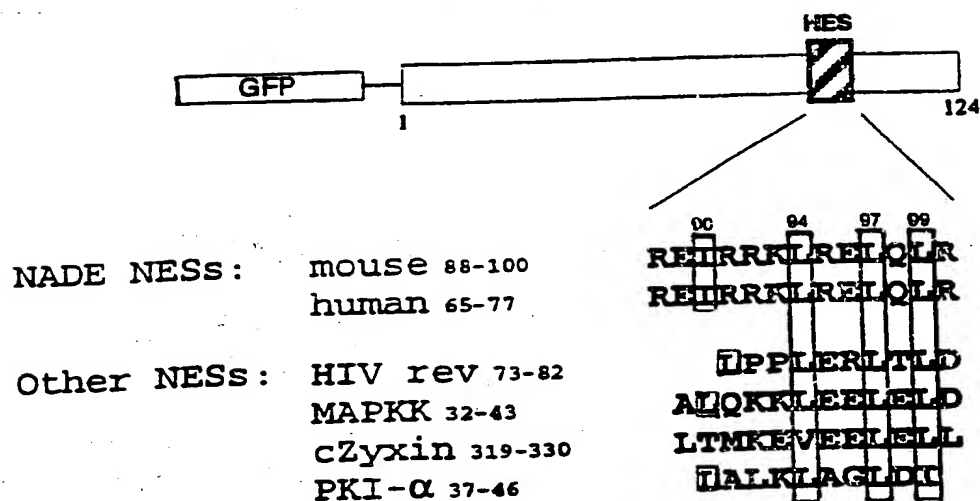


Figure 3E

15/29

**Figure 4A**  
**WT mouse NADE-GFP**



16/29

Figure 4B

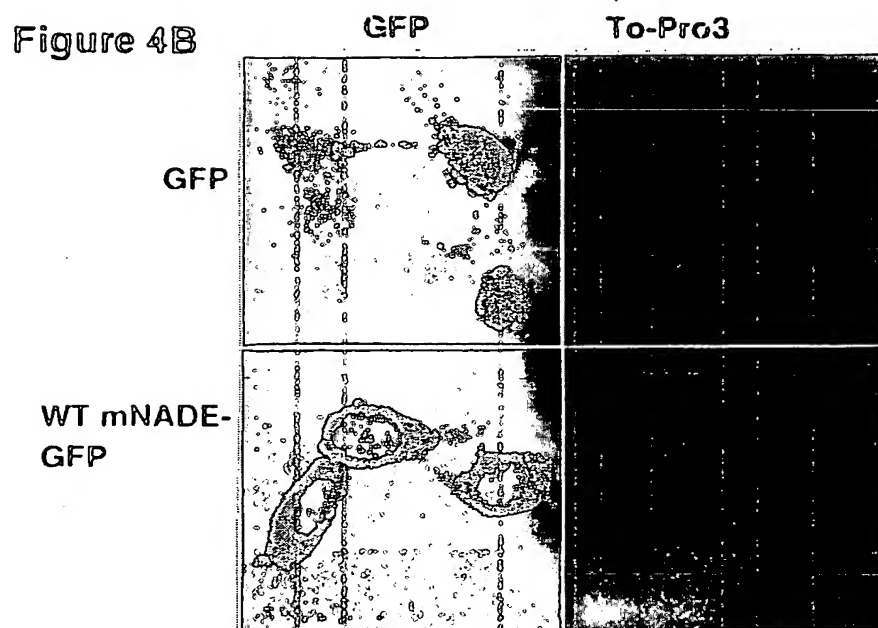
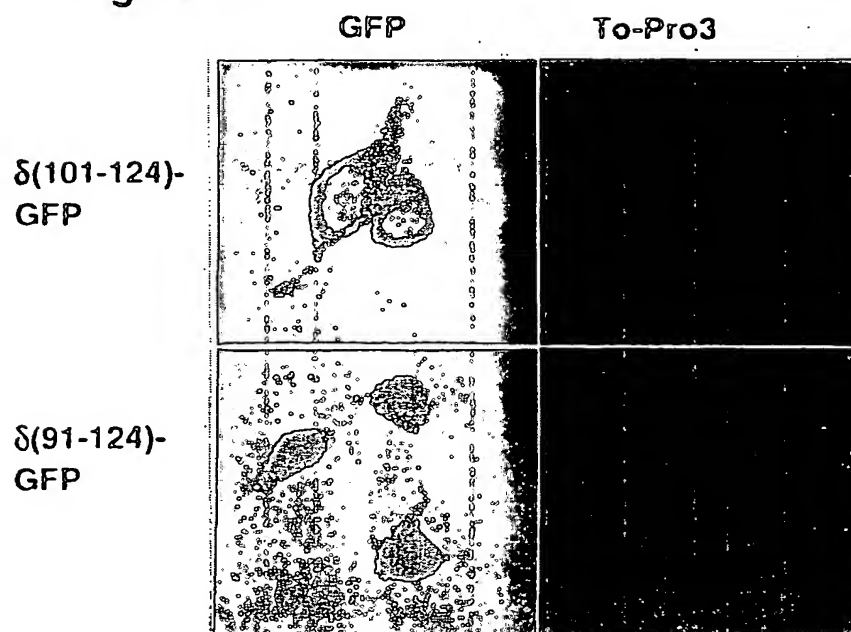
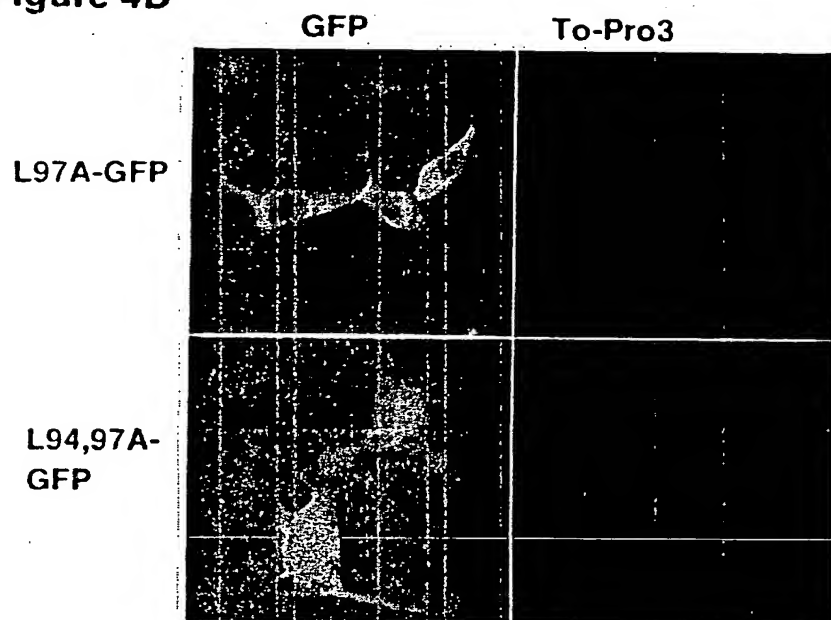


Figure 4C



16/29/1

**Figure 4D**

17/29

FIGURE 5A

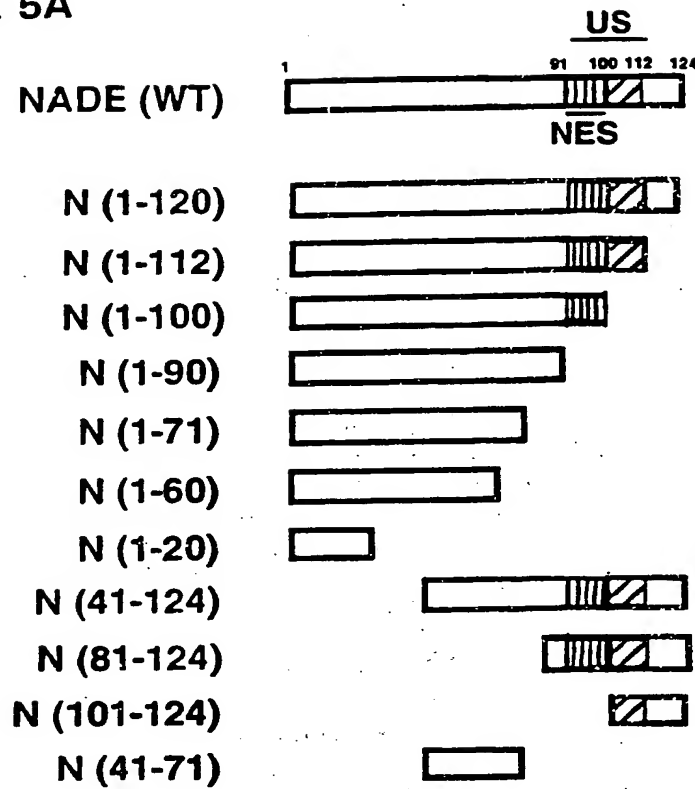
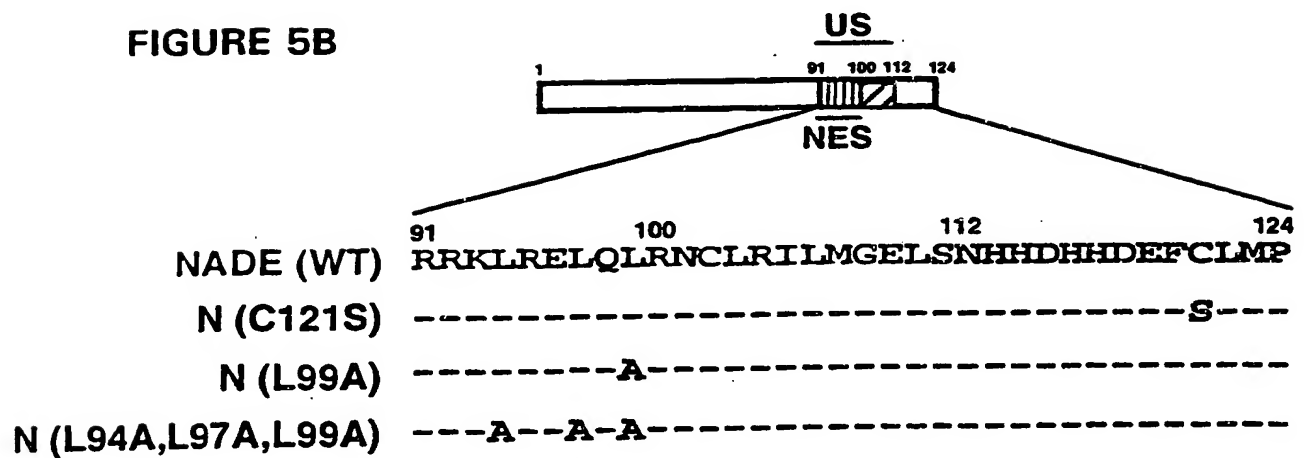


FIGURE 5B



18/29

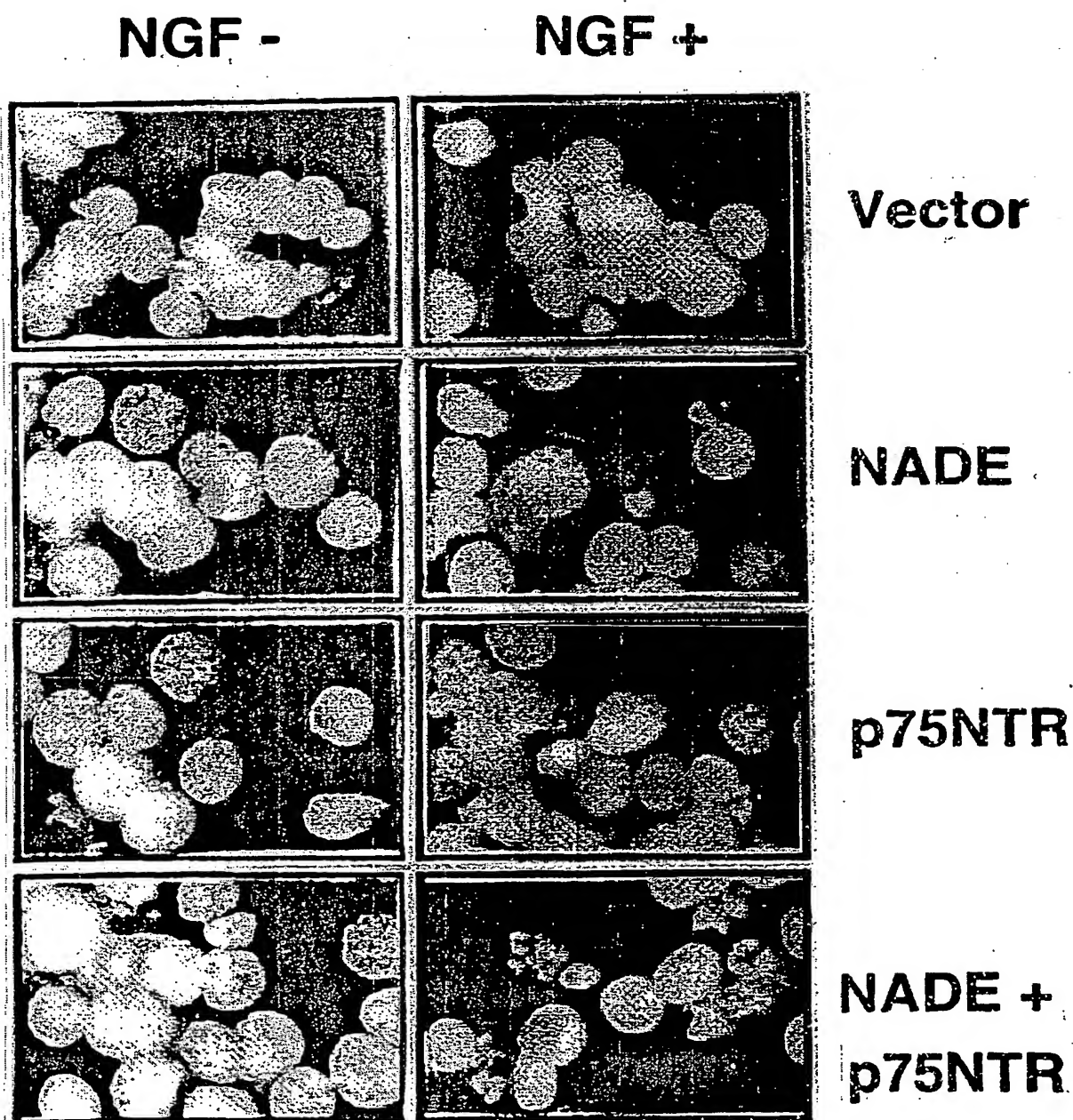


FIGURE 6A

19/29

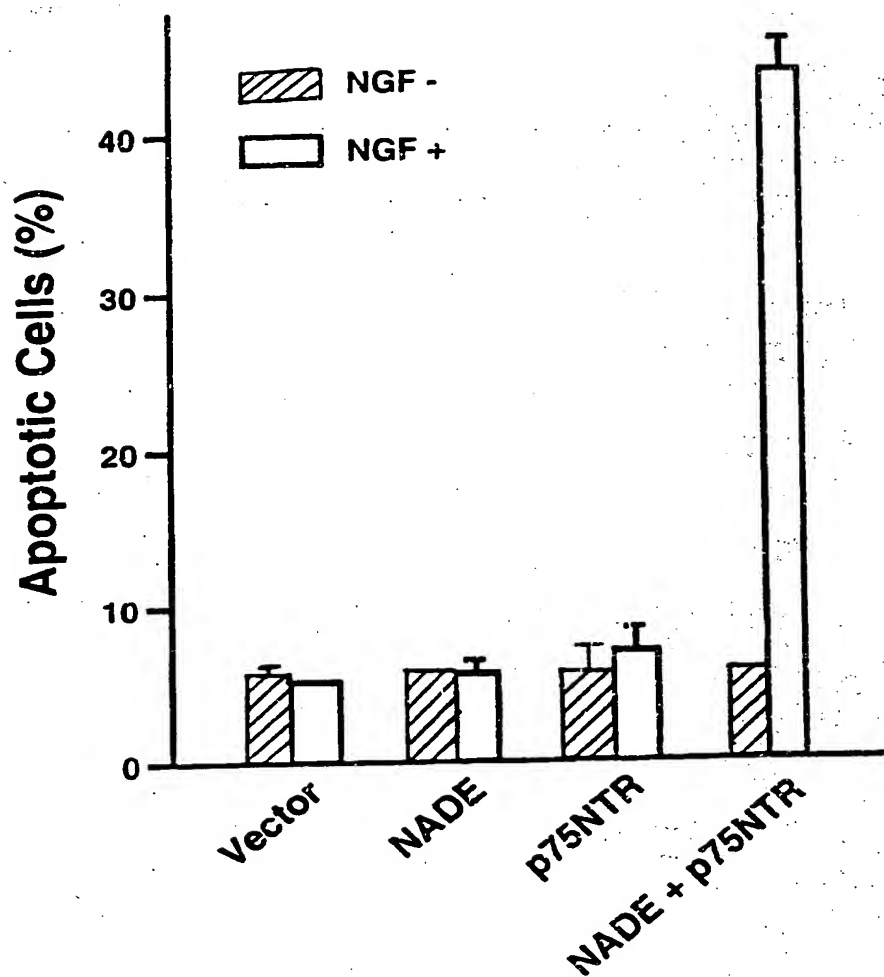


FIGURE 6B

20/29

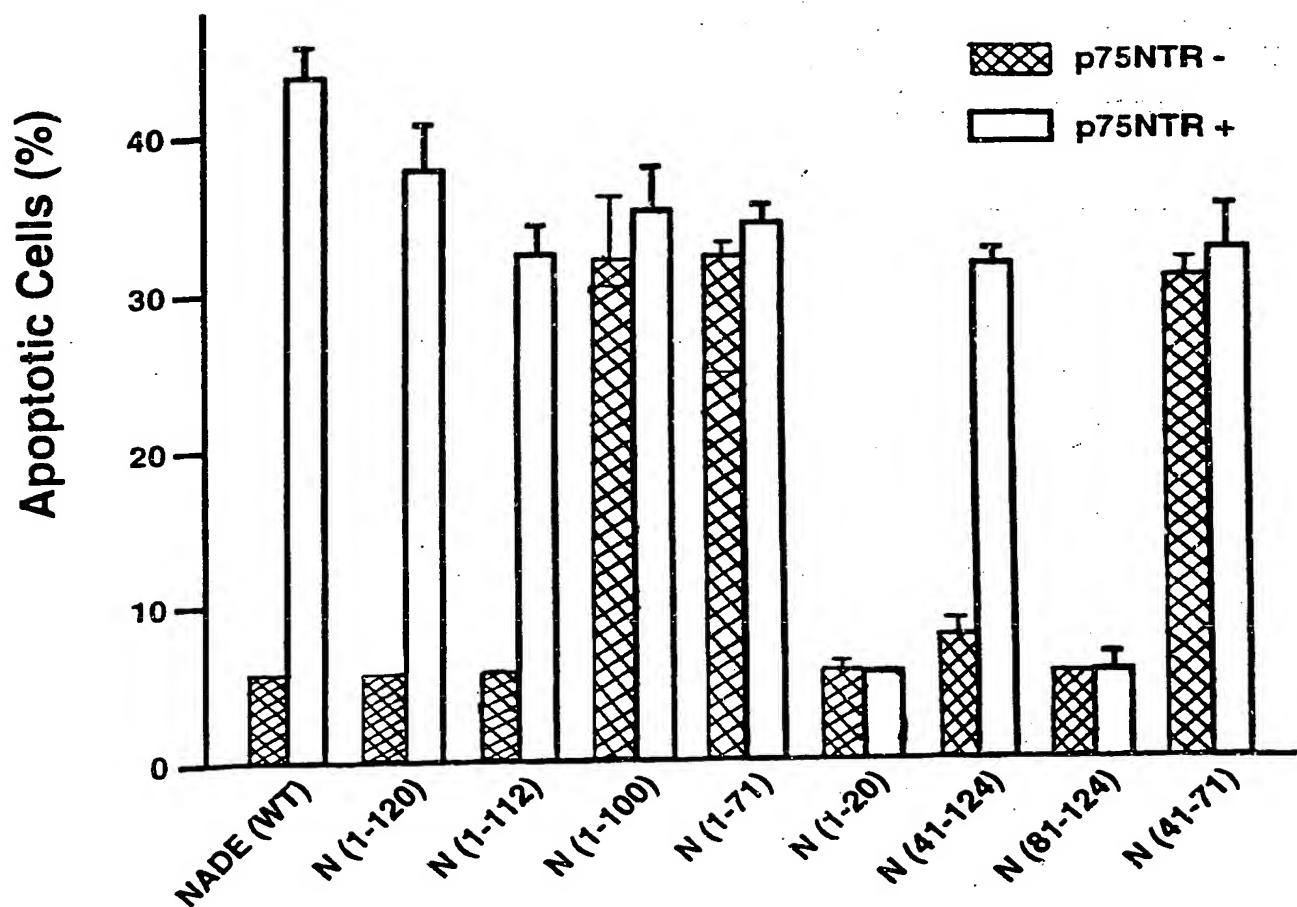


FIGURE 7



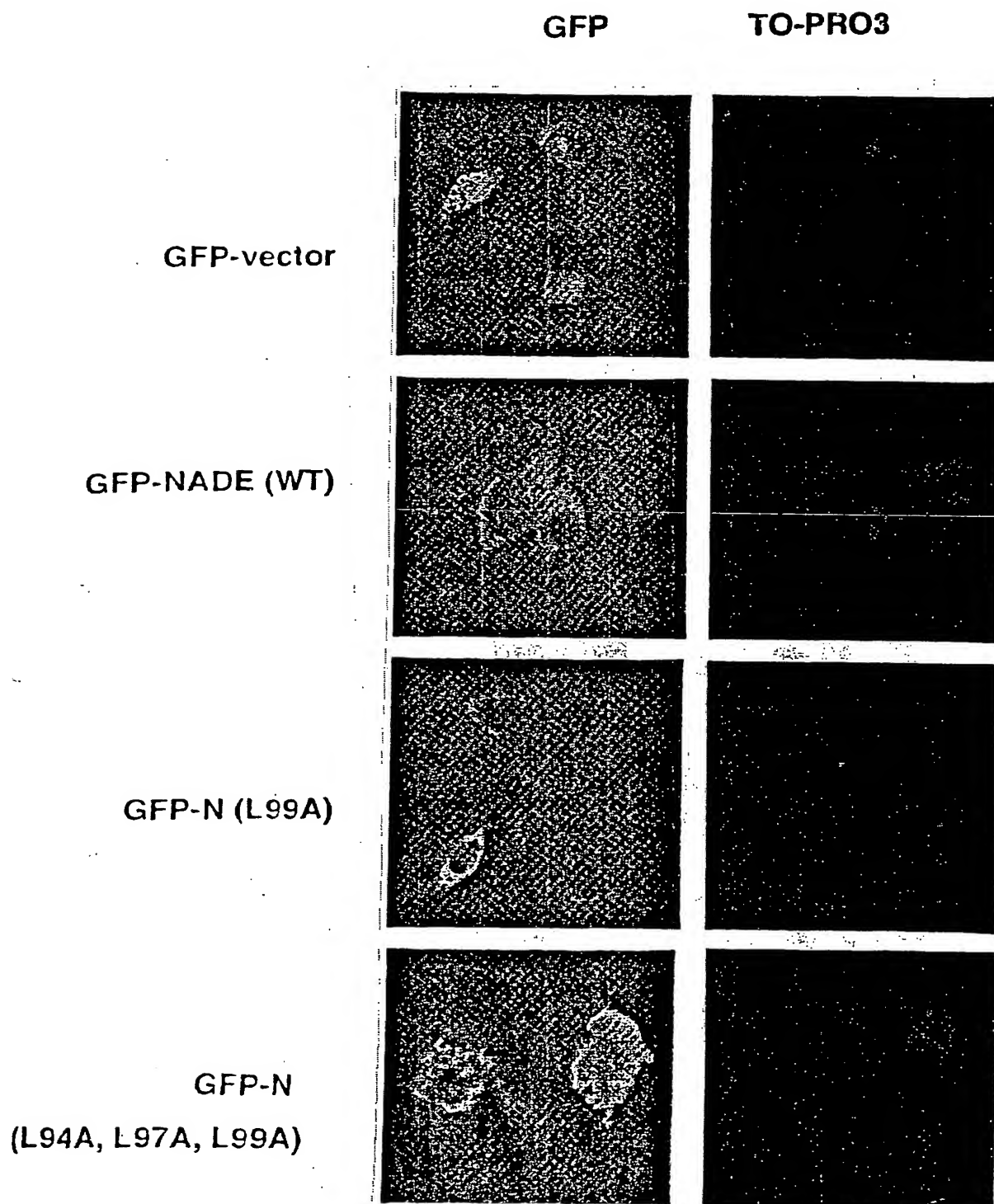
21/29

<b>NADE NESs:</b>	<b>mouse</b> 88-100	REIRRKLRRLQLR
	<b>rat</b> 84-96	REIRRKLRRLQLR
	<b>human</b> 65-77	REIRRKLRRLQLR
<b>Other NESs:</b>	<b>PKI</b> 37-45	LALAGLDIN
	<b>HIV rev</b> 73-82	LP-PLERLTLD
	<b>MDM2</b> 197-206	L-SFDESLALC
	<b>MAPKK</b> 32-43	ALQKKLEELFD

FIGURE 8A

22/29

Figure 8B



23/29

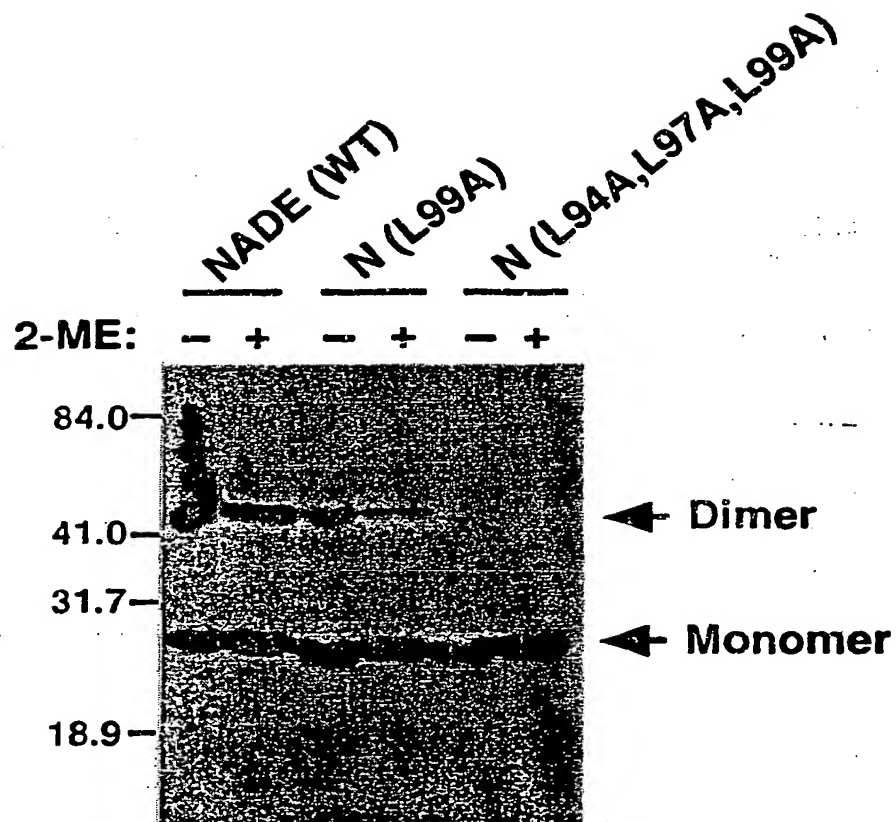


FIGURE 8C

24/29

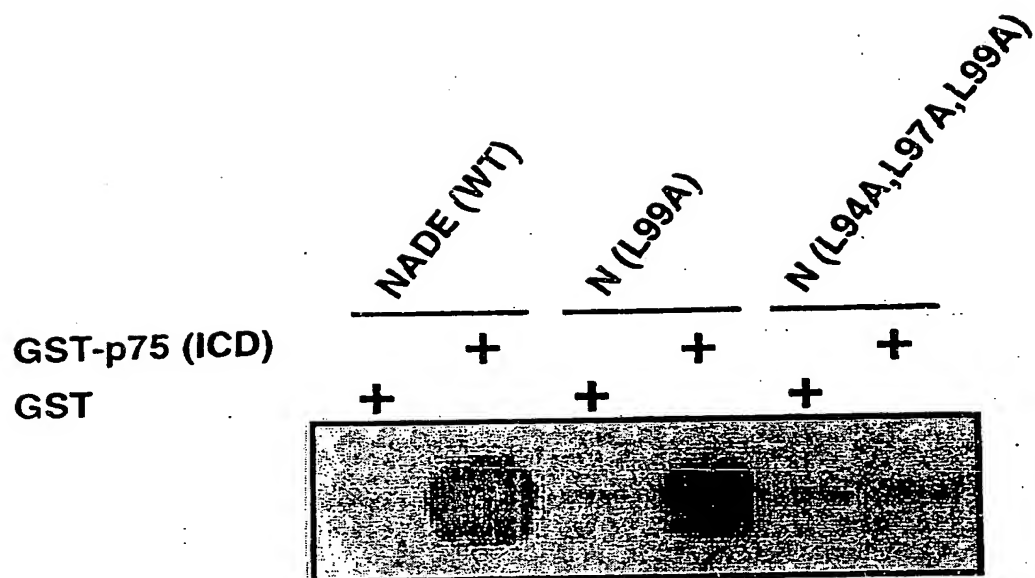


FIGURE 8D

25/29

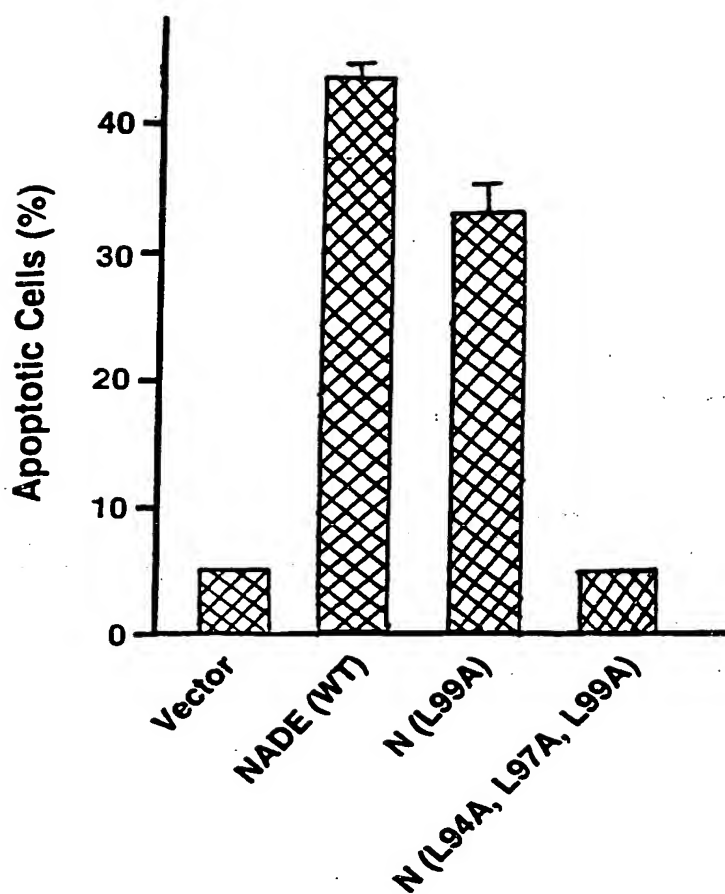


FIGURE 8E

26/29

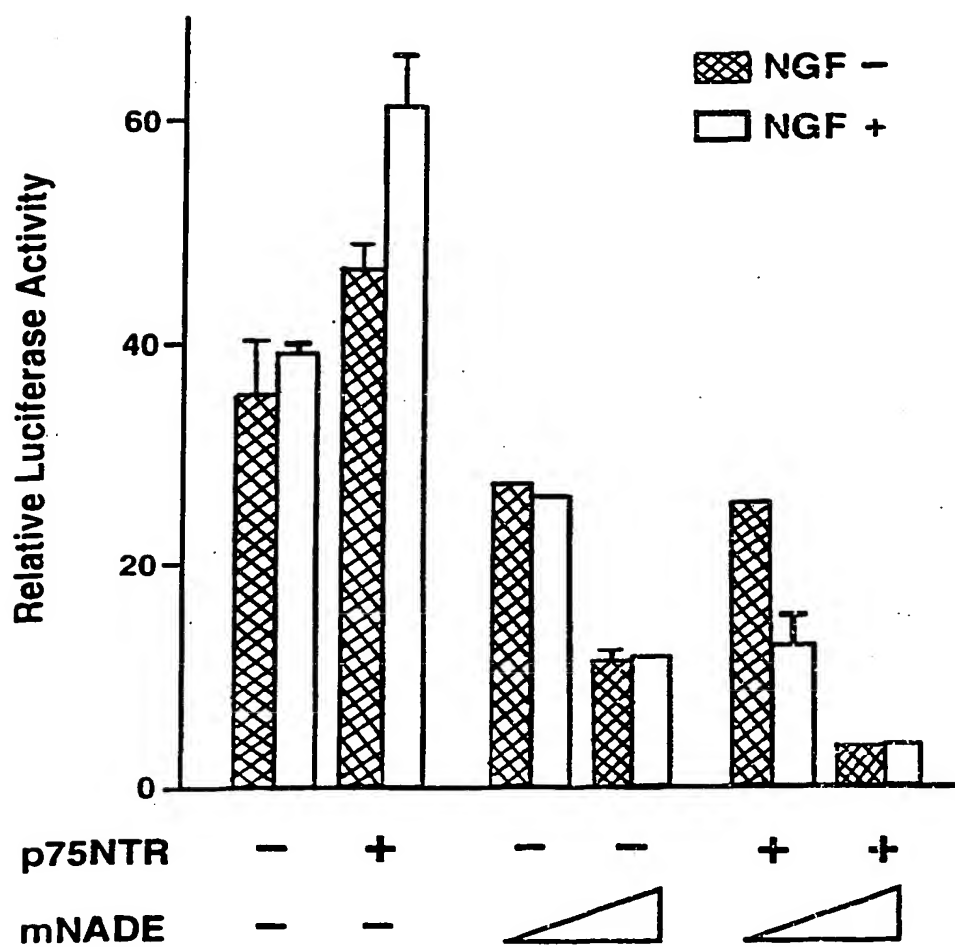


FIGURE 9A

27/29

FIGURE 9C

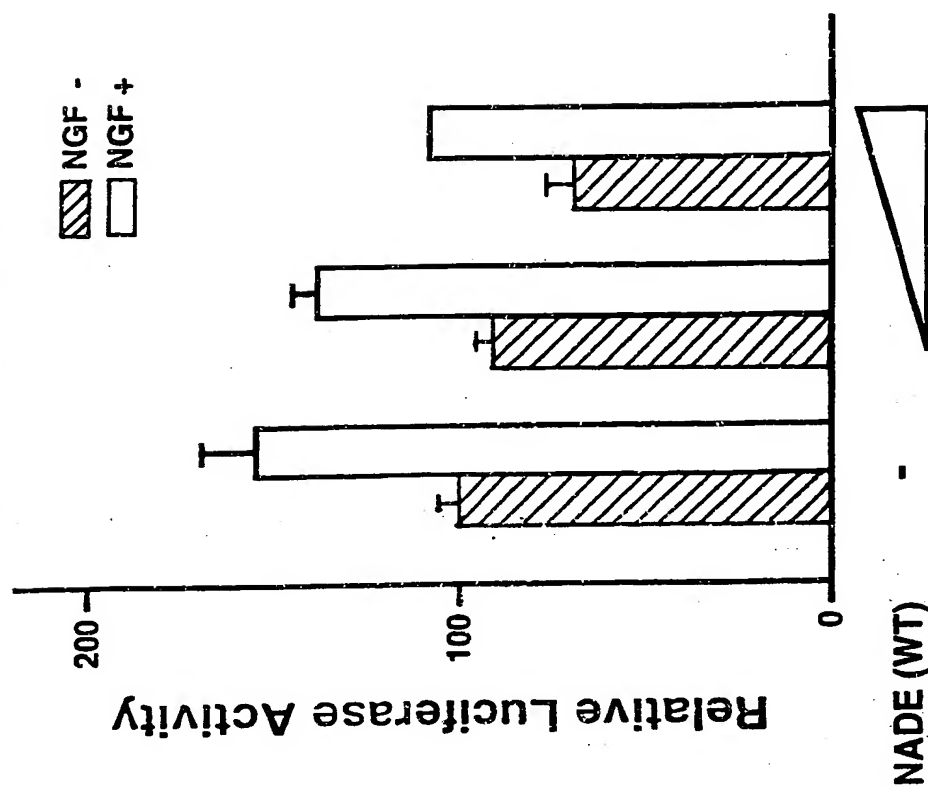
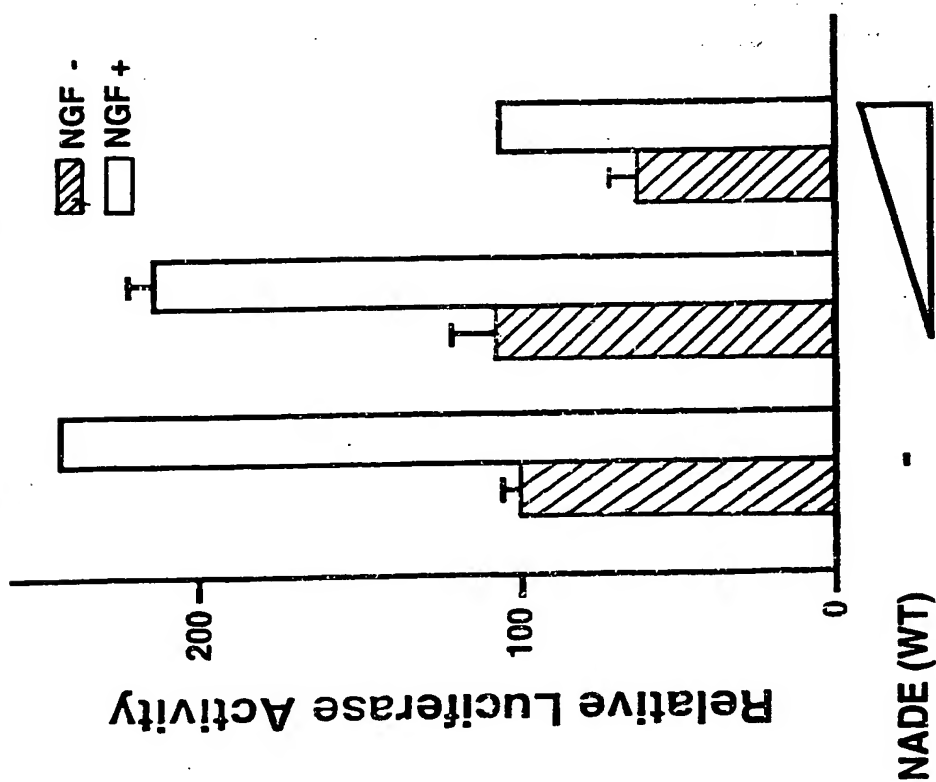
nnr5 cells

FIGURE 9B

PC 12 cells

28/29

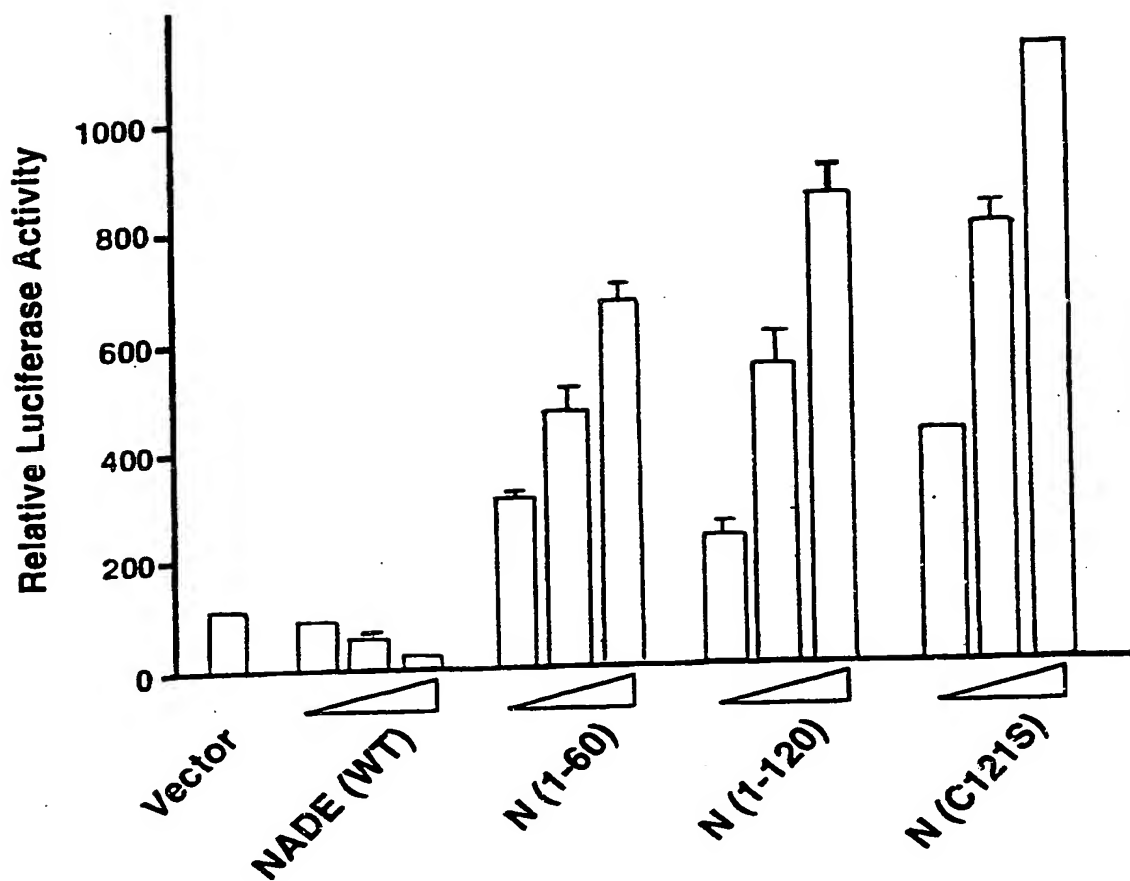


FIGURE 10



29/29

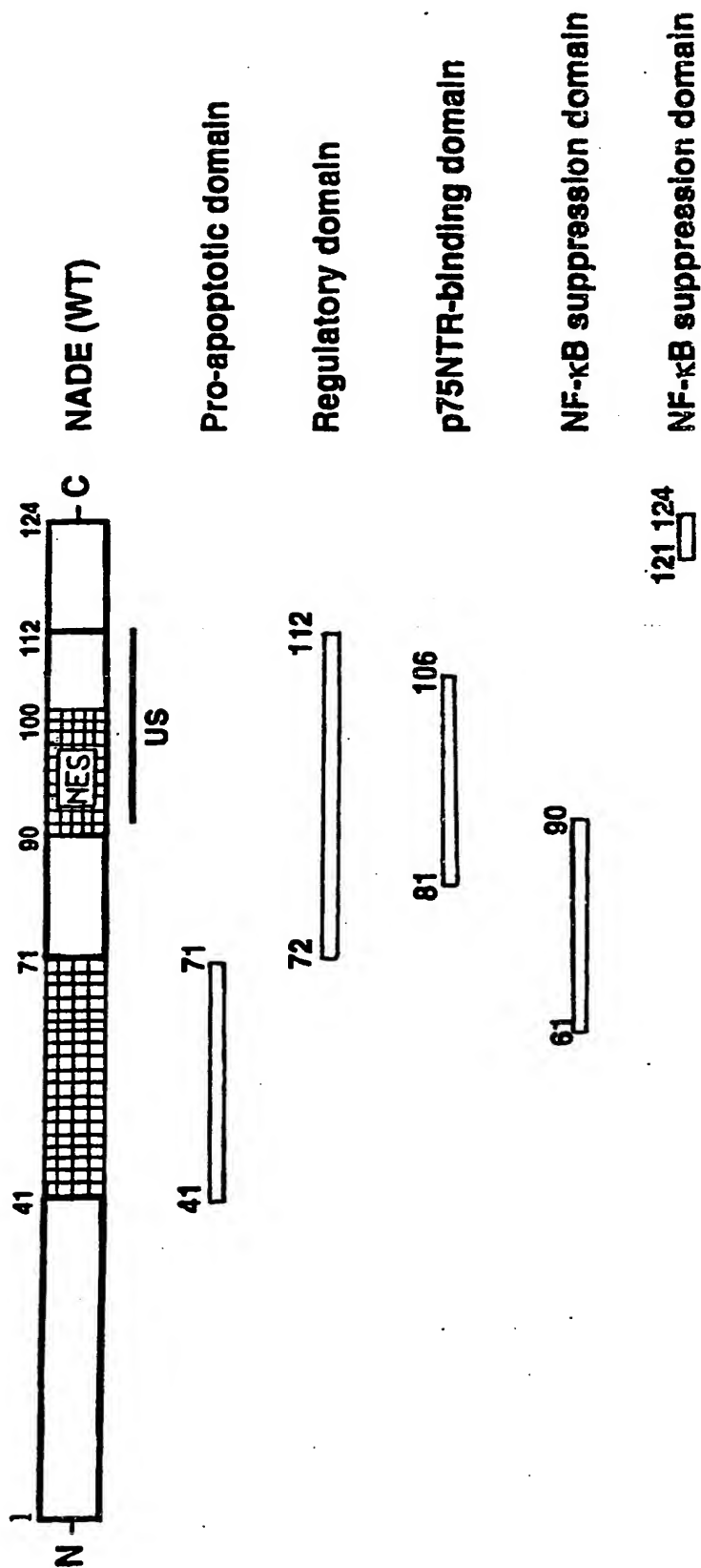


FIGURE 11